

**PATENT APPLICATION**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Masahiro KOBAYASHI, Taiichi MIYA,  
Naofumi KUMAGAI

Application No.: New US Patent Application

Filed: November 26, 2001

Docket No.: 111195

For: STATOR STRUCTURE OF VARIABLE RELUCTANCE RESOLVER

**PRELIMINARY AMENDMENT**

Director of the U.S. Patent and Trademark Office  
Washington, D. C. 20231

Sir:

Prior to initial examination, please amend the above-identified application as follows:

**IN THE CLAIMS:**

Please replace claims 3-6 as follows:

3. (Amended) The stator structure of a variable reluctance resolver according to Claim 1, wherein said uneven section for increasing the creeping distance is provided at the surface that comes into contact with said synthetic resin on overhung section for retaining said stator winding wound around said coil winding section of said stator assembly.

4. (Amended) The stator structure of a variable reluctance resolver according to Claim 1, wherein said circular stator core has a plurality of through holes along the outermost periphery of said surrounding synthetic resin.

5. (Amended) The stator structure of a variable reluctance resolver according to Claim 1, wherein said part mounting section provided for said first stator magnetic-pole assembly, and said circular stator core have a plurality of through holes, respectively, and said

through holes are arranged at positions where said through holes of said part mounting sections correspond to those of said circular stator core.

6. (Amended) The stator structure of a variable reluctance resolver according to Claim 1, wherein said synthetic resin, said first stator magnetic-pole assembly, and said second stator magnetic-pole assembly have almost the same thermal expansion coefficient.

Please add new claims 7-16 as follows:

--7. The stator structure of a variable reluctance resolver according to Claim 2, wherein said uneven section for increasing the creeping distance is provided at the surface that comes into contact with said synthetic resin on overhung section for retaining said stator winding wound around said coil winding section of said stator assembly.--

--8. The stator structure of a variable reluctance resolver according to Claim 2, wherein said circular stator core has a plurality of through holes along the outermost periphery of said surrounding synthetic resin.--

--9. The stator structure of a variable reluctance resolver according to Claim 3, wherein said circular stator core has a plurality of through holes along the outermost periphery of said surrounding synthetic resin.--

--10. The stator structure of a variable reluctance resolver according to Claim 2, wherein said part mounting section provided for said first stator magnetic-pole assembly, and said circular stator core have a plurality of through holes, respectively, and said through holes are arranged at positions where said through holes of said part mounting sections correspond to those of said circular stator core.--

--11. The stator structure of a variable reluctance resolver according to Claim 3, wherein said part mounting section provided for said first stator magnetic-pole assembly, and said circular stator core have a plurality of through holes, respectively, and said through holes

are arranged at positions where said through holes of said part mounting sections correspond to those of said circular stator core.--

--12. The stator structure of a variable reluctance resolver according to Claim 4, wherein said part mounting section provided for said first stator magnetic-pole assembly, and said circular stator core have a plurality of through holes, respectively, and said through holes are arranged at positions where said through holes of said part mounting sections correspond to those of said circular stator core.--

--13. The stator structure of a variable reluctance resolver according to Claim 2, wherein said synthetic resin, said first stator magnetic-pole assembly, and said second stator magnetic-pole assembly have almost the same thermal expansion coefficient.--

--14. The stator structure of a variable reluctance resolver according to Claim 3, wherein said synthetic resin, said first stator magnetic-pole assembly, and said second stator magnetic-pole assembly have almost the same thermal expansion coefficient.--

--15. The stator structure of a variable reluctance resolver according to Claim 4, wherein said synthetic resin, said first stator magnetic-pole assembly, and said second stator magnetic-pole assembly have almost the same thermal expansion coefficient.--

--16. The stator structure of a variable reluctance resolver according to Claim 5, wherein said synthetic resin, said first stator magnetic-pole assembly, and said second stator magnetic-pole assembly have almost the same thermal expansion coefficient.--

#### REMARKS

Claims 1-16 are pending. By this Preliminary Amendment, claims 3-6 are amended to eliminate multiple dependencies and claims 7-16 are added to compensate for the subject matter deleted from claims 3-6. Prompt and favorable consideration on the merits is respectfully requested.

The attached Appendix includes marked-up copies of each rewritten claim (37 C.F.R. §1.121(c)(1)(ii)).

Respectfully submitted,



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Attached: APPENDIX

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## APPENDIX

## Changes to Claims:

Claims 7-16 are added.

The following are marked-up versions of the amended claims:

3.     ~~(Amended)~~ The stator structure of a variable reluctance resolver according to Claim 1 ~~or 2~~, wherein said uneven section for increasing the creeping distance is provided at the surface that comes into contact with said synthetic resin on overhung section for retaining said stator winding wound around said coil winding section of said stator assembly.

4.     ~~(Amended)~~ The stator structure of a variable reluctance resolver according to Claim 1 ~~any one of Claims 1 to 3~~, wherein said circular stator core has a plurality of through holes along the outermost periphery of said surrounding synthetic resin.

5.     ~~(Amended)~~ The stator structure of a variable reluctance resolver according to Claim 1 ~~any one of Claims 1 to 4~~, wherein said part mounting section provided for said first stator magnetic-pole assembly, and said circular stator core have a plurality of through holes, respectively, and said through holes are arranged at positions where said through holes of said part mounting sections correspond to those of said circular stator core.

6.     ~~(Amended)~~ The stator structure of a variable reluctance resolver according to Claim 1 ~~any one of Claims 1 to 5~~, wherein said synthetic resin, said first stator magnetic-pole assembly, and said second stator magnetic-pole assembly have almost the same thermal expansion coefficient.